Doc No: MHD 08(25047) WC
April 2024

BUREAU OF INDIAN STANDARDS

DRAFT FOR COMMENTS ONLY

भारतीय मानक मसौदा

दंत चिकित्सा - दंत मिश्रण के लिए संक्षारण परीक्षण विधियाँ

Draft Indian Standard

Dentistry — Corrosion Test Methods for Dental Amalgam

ICS 11.060.10

Dentistry Sectional Committee, MHD 08 Last date for comments: 24 May 2024

NATIONAL FOREWORD

(*Adoption clause will be added later*)

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain conventions are however not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as 'Indian Standard'
b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their respective places are listed below along with their degree of equivalence for the editions indicated:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
ISO 286-2, Geometrical product specifications (GPS) — ISO code system for tolerances on linear sizes — Part 2: Tables of standard tolerance classes and limit deviations for holes and shafts	IS 919 (Part 2) : 2014/ISO 286-2: 2010, Geometrical product specifications (GPS) - ISO code system for tolerances on linear sizes: Part 2 tables of standard tolerance classes and limit deviation for holes and shafts (*Second Revision*)	Identical
ISO 1942, Dentistry — Vocabulary	IS 17895 : 2023/ISO 1942 : 2020, Dentistry Vocabulary	Identical

ISO 3585, Borosilicate glass 3.3 — Properties	IS 18219 : 2023/ ISO 3585:1998, Borosilicate glass 3.3 – Properties	Identical
ISO 3696, Water for analytical laboratory use — Specification and test methods	IS 1070 : 2023, Reagent grade water - Specification (*Fourth Revision*)	Modified
ISO 21920-2, Geometrical Product Specifications (GPS) — Surface texture: Profile method — Terms, definitions and surface texture parameters	IS 18432 (Part 2) : 2023/ ISO 21920-2:2021, Geometrical product specifications (GPS)- Surface texture: Profile: Part 2 Terms, definitions and surface texture parameters	Identical
ISO 6344-2, Coated abrasives Determination and designation of grain size distribution Part 2: Macrogrit sizes P12 to P220	PGD/09/23647, Coated Abrasives Determination and designation of grain size distribution Part 2 Macrogrit sizes P12 to P220	Identical
ISO 6344-3, Coated abrasives Determination and designation of grain size distribution Part 3: Microgrit sizes P240 to P5000	PGD/09/23641, Coated Abrasives Determination and designation of grain size distribution Part 3 Microgrit sizes P240 to P5000	Identical
ISO 24234, Dentistry — Dental amalgam	IS 18495 : 2024/ ISO 24234 : 2021, Dentistry - Dental amalgam (*Second Revision*)	Identical

The technical committee has reviewed the provisions of the following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

International Standard	*Title*
ISO 7488	Dentistry — Mixing machines for dental amalgam
ISO 13897	Dentistry — Dental amalgam reusable mixing-capsules

This standard includes modification of cross reference from ISO 4287 to ISO 21920-2. Wherever reference to ISO 4287 occurs in the text, ISO 21920-2 has to be substituted.

This Standard also includes modification of ISO 6344-1 to two parts i.e. ISO 6344-2: 2021 and ISO 6344-3: 2021.

In reporting the result of a test or analysis made in accordance with this standard, is to be rounded off, it shall be done in accordance with IS 2 : 2022 ‘Rules for rounding off numerical values (*second revision*)’.

Scope

This document gives the details of test procedures for evaluating the corrosion resistance of dental amalgam formed from products that are within the scopes of ISO 24234 and ISO 20749.

This document is not applicable to other metallic materials in which an alloy powder reacts with a liquid alloy to produce a solid metallic material intended for dental restoration.

The technical content of the document has not been enclosed as it is identical with the corresponding ISO standard. For details, please refer to ISO/TS 17988: 2020 or kindly contact:

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